AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

Provided is a process for producing a fine carbon fiber by a method of thermal decomposition of at least one organic compound containing an IUPACVIB group 16 element in the periodic table in a molecule—using a—ultra fine particles comprising of at least one transition metal as a catalyst, wherein a gas obtained by separating a—fine carbon fiber from a—gas coming out from a reaction furnace is cooled to further collect the—fine carbon fiber still present in the gas.7 then—After cooling, at least part or the total amount—of the above gas is cooled again to remove condensed components contained in the reacted_unwanted condensates and by-products—gas, and then the above—after which the gas is recycled to the reaction furnace_7 water—Water and the like are then separated from the condensate to further recycle the—unreacted raw material organic compound removed during condensation.

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